AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (Currently Amended) A method of boring a tunnel by means of an earth pressure balance tunnel boring machine, comprising the injection at the cutting head of a foamed aqueous <u>surfactant</u> solution and an aqueous solution of a water-soluble acrylic acid-based polymer.
- 2. (Currently Amended) A method according to claim 1, in which the <u>foamed</u> aqueous <u>surfactant</u> solution for <u>foaming</u> and the aqueous solution of <u>a</u> water-soluble acrylic acid-based polymer is <u>are</u> added as a single material.
- 3. (Original) A foaming solution for use with earth pressure balance tunnel boring machines, comprising an aqueous solution of an acrylic acid-based polymer and an anionic surfactant selected from sulphate esters, sulphate ethers and sulphonates.
- 4. (Original) A foaming solution according to claim 3, in which the surfactant is a lauryl ether sulphate, whose ether portion consists of two oxyethyl units maximum.
- 5. (New) A foaming solution according to claim 3, wherein the surfactant comprises a polyalkylene alkyl ether sulphate.
- 6. (New) A foaming solution according to claim 5, wherein the polyalkylene oxide chain of the polyalkylene alkyl ether sulphate has an average chain length of from 1-3 alkylene oxide units.
- 7. (New) A foaming solution according to claim 3, wherein the surfactant comprises at least one of α -olefin sulphonate, C_{8-22} fatty alcohol sulphate salts, C_{8-22} fatty alcohol ether sulphate salts or mixtures thereof.
- 8. (New) A foaming solution according to claim 3, wherein the surfactant comprises monoisopropanol ammonium lauryl alcohol sulphate.

- 9. (New) A foaming solution according to claim 7, wherein the C₈₋₂₂ fatty alcohol ether sulphate salts comprise at least one of:
 - a. lauryl alcohol;
 - b. an ether formed with an alkylene oxide chain of from 1 to 3 alkylene oxide units; or
 - c. a salt forming cation selected from alkali metal, magnesium and alkanolamine.
- 10. (New) A foaming solution according to claim 3, wherein the acrylic acid-based polymer has a molecular weight from 2,000 to 20,000.
- 11. (New) A foaming solution according to claim 3, wherein the acrylic acid-based polymer has a molecular weight from 2,000 to 10,000.
- 12. (New) A foaming solution according to claim 3, wherein the acrylic acid-based polymer is derived from acrylic acid.
- 13. (New) A foaming solution according to claim 3, wherein the acrylic acid-based polymer is a salt.
- 14. (New) A foaming solution according to claim 13, wherein the acrylic acid-based polymer salt comprises a monovalent cation that is at least one of sodium, potassium, ammonium, tertiary amine, quaternary amine or mixtures thereof.
- 15. (New) A method according to claim 1, wherein the foamed aqueous surfactant solution and the aqueous solution of water-soluble acrylic acid-based polymer are added separately.
- 16. (New) A method according to claim 1, wherein the foamed aqueous surfactant solution is injected at a rate of from 0.2 to 4 Kg dry material per cubic meter of excavated soil.

- 17. (New) A method according to claim 1, wherein the foamed aqueous surfactant solution is injected at a rate of from 0.5 to 2 Kg dry material per cubic meter of excavated soil.
- 18. (New) A method according to claim 1, wherein the acrylic acid-based polymer is injected at a rate of from 0.05 to 2 Kg dry polymer per cubic meter of excavated soil.
- 19. (New) A method according to claim 1, wherein the acrylic acid-based polymer is injected at a rate of from 0.1 to 1 Kg dry polymer per cubic meter of excavated soil.
- 20. (New) A method according to claim 1, wherein the acrylic acid-based polymer is injected at a rate of from 0.2 to 0.5 Kg dry polymer per cubic meter of excavated soil.